

## Part- I

- Answer all questions on paper itself.

1. 



Write the number of axes of symmetry of the given figure?
02. $A=\{$ digits of the number 1000$\}$ Write down the set A by listing its elements.
03. Simplify. $12+7 \times 9$
04. 9 divides the number 71 $\square$ 4. Sugges a digit suitable for empty box.
05. Write five to the power two in index notation and find the value of it.
06. (1) To which decate does 2019 belong?
(2) To which a century does 2019 belong?
07.

09. What is the largest unit fraction?
10. Express $12 / 5$ as a decimal number?
11. Three times of a certain number $x$ is subtracted from 10, Construct an algebraic expression to represent this information?
12. Write 1.05 g in grames and milligrams.
13. What is the name of a quadrilateral with xeactly one pair of parallel sides.
14. Solve. $3 x-2=13$
15. Arrange in assending order. $80 \mathrm{~m}, 0.1 \mathrm{~km}, 95 \mathrm{~cm}$
16.


Centre of a given circle is O . Name the radius and diameter of the circle.
17. The volume of the Cool drink in a bottle is 650 ml . Give the total amount of cool drink in 10 such bottles.
18. Find the largest number which divides 18,12 and 30 without remainder.
19.


Find the shaded part as a frqaction of whole figrue.
20. Write all prime factors of 36 .
$\qquad$

## Part - II

## - Answer first question and another four questinos.

1. (a) i) Find the area of the following figures A and B

(A)

(B)
ii) Find the perimeter of the above figures A and B .
iii) Find the side of a squre whose area is equal to the area of the figure (B)
(b) 1) Find the area of the given compound figure.

2) The rectangular swimming pool is located in the middle of a rectangular land of 30 m long and 22 m width as shown in the figure. The grass is grown around a metre wide.
i) Find the total area of the land
ii) Find the length and width of the swimming pool
iii) Find the area of swimming pool
iv) Find the area of grass land.

$(2+2+2+3+2+2+2+1=16$ marks $)$
2. a) i) Express $19 / 4$ as a mixed number.
ii) Express $23 / 7$ as a improper fraction.
iii) Fill in the blanks. $\frac{6}{18}=\frac{5}{\square}$
b) Simplify
(i) $\frac{2}{7}+\frac{1}{14}$
(ii) $2 \frac{3}{5}-1 \frac{2}{5}$
c) Fill in the blanks with the suitable symbol from $>,<$ and $=$.
(i) $\frac{8}{9}-\square \frac{2}{5}$
(ii) $3 \frac{1}{7} \square 3 \frac{11}{12}$

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(1+1+2+2+3+1+1=11 \text { marks })
$$

3. a) Express each of the following fractions as a decimal number.
(i) $\frac{38}{100}$
(ii) $\frac{1}{8}$
b) Simplify
(i) $(-8.3)+(+2.5)+(+6.1)$
(ii) 5-0.4
(iii) $0.073 \times 100$
(iv) $6.24 \div 3$
c) Compare the following decimal numbers using $\rangle$, $<$, or $=$.
(i) -41.7
 10.5
(ii)

d) Represent 4.032 on an abacus.

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(1+1+1+1+1+2+1+1+2=11 \text { marks })
$$

4. a) (i) Complete the flow diagram to solve the equation $2 a-1=9$.

(ii) Find the value of each of the algebraic expressions given below when $a=2$ and $b=3$
(1) $a+b-2$
(2) $\frac{3 b-a+5}{4}$
b) Kumar took 6 string hoppers at Rs. $x$ per each and curry worth Rs. 25 for break fast.
(i) Write an algebraic expression for the total amount spent by Kumar.
(ii) If the cost of breakfast is Rs.115, construct an algibraic equation.
(iii) Find the cost of a string hopper by solving this equation.

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(2+1+2+2+2+2=11 \text { marks })
$$

5. (i) Draw a stralgh line segment of 5 cm long name it AB .
(ii) Draw two circles of radius 4 cm with centres $A, B$
(iii) Name the intersection points of the two circles as $x$ and $y$.
(iv) Write the name of the figure obtained by joining the point in the order $A, X, B, Y$ and $A$.
(v) What is the relationship between the lengths AX and by. What is the special name of AX and BY.

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(2+2+2+3+2=11 \text { marks })
$$

6. a) In a box of 500 g weight, there are 3 milk packets each weight $400 \mathrm{~g}, 4$ sugar bags each wighs 400 g and 5 tea packets each weight 150 g .
(i) Find the wight of 3 milk packets
(ii) Find the total weight of the box.
b) The length of a rectangle is 5 cm more than the breadth. If the breadth is 3 cm , find the perimeter of the rectangle.
(c) Simplify

(i) | km | $m$ |
| ---: | ---: |
| 5 | 40 |
| -2 | 500 |
|  | (ii) $12 \mathrm{~cm} 8 \mathrm{~mm} \times 5$ |
|  | (iii) $12 \mathrm{~m} 8 \mathrm{~cm} \div 8$ |
|  |  |
|  |  |
|  |  |$(2+2+2+2+3=11$ marks $)$

